Abstract

An improved system and method for reducing the size of data difference representations. The input data stream may be split into one or more output data streams such that the output data streams may be recombined and used to regenerate the original input data stream. Each of the output data streams may be independently differenced against the equivalent data stream from the previous version of the data. Non-localized changes in the input data stream may be converted into localized changes in a subset of the output data streams. The subset of output data streams no longer containing non-localized changes produce efficient (i.e., small) difference representations. The difference representations of each of these streams may be packaged into a single stream for transmission over a computer network. The receiving computer may reconstruct the multiplicity of difference representations, and recreate the multiplicity of translated data streams representing the updated data.